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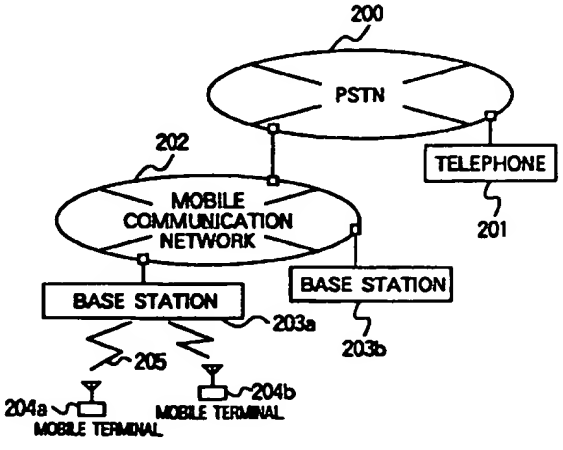
(54) Transmission power control method for a CDMA communication system

(57) An uplink channel transmission power control method is provided for a CDMA mobile communication system performing one way communication. A base station (203) measures the received level of data transmitted from each mobile terminal (204) at each channel, and generates a transmission power control signal of each uplink traffic channel. The generated transmission power control signals are multiplexed, and the multiplexed common transmission power control signal is transmitted to all mobile terminals by using the common channel shared by the mobile terminals. Each mobile terminal derives the transmission power control signal of the uplink traffic channel used by the terminal, from the received common transmission power control signal, and controls the transmission power of a data packet.

FIG. 1



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EUROPEAN SEARCH REPORT

Application Number
EP 97 12 1324

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
A	WO 96 03813 A (QUALCOMM INC) 8 February 1996 (1996-02-08) * abstract * * page 5, line 25 - page 6, line 2 * * page 9, line 23 - line 35 *	1,3,5,6, 10,13, 15,16, 19,20,23	H04B7/005 H04B7/216
A	US 5 559 790 A (DOI NOBUKAZU ET AL) 24 September 1996 (1996-09-24) * abstract * * column 5, line 25 - column 6, line 38 *	1,3,5,6, 10,13, 15,16, 19,20,23	
A	WO 95 31879 A (NOKIA MOBILE PHONES LTD ;NOKIA TELECOMMUNICATIONS OY (FI); JOKINEN) 23 November 1995 (1995-11-23) * abstract * * page 3, line 1 - line 20 * * page 6, line 10 - line 24 * * page 17, line 6 - line 20 *	1,3,5,6, 10,13, 15,16, 19,20,23	TECHNICAL FIELDS SEARCHED (Int.Cl.6) H04B

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
THE HAGUE	5 July 2000	Lustrini, D

CATEGORY OF CITED DOCUMENTS

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05-07-2000

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9603813 A	08-02-1996	US 5604730 A	18-02-1997
		AU 701510 B	28-01-1999
		AU 3003195 A	22-02-1996
		BR 9508428 A	23-12-1997
		CA 2195984 A	08-02-1996
		EP 0774179 A	21-05-1997
		FI 970319 A	13-03-1997
		IL 114703 A	06-12-1998
		JP 10503337 T	24-03-1998
		ZA 9505843 A	15-03-1996
US 5559790 A	24-09-1996	JP 7038496 A	07-02-1995
		US 5870393 A	09-02-1999
WO 9531879 A	23-11-1995	FI 942191 A	12-11-1995
		AU 682112 B	18-09-1997
		AU 2410495 A	05-12-1995
		CN 1128604 A	07-08-1996
		EP 0709015 A	01-05-1996
		JP 9504153 T	22-04-1997
		NO 960118 A	08-03-1996
		US 5898925 A	27-04-1999
		US 5991627 A	23-11-1999

EPO FORM P0459

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